



LED Display

Product Data Sheet

LTC-3710JE-04

Spec No.: DS30-2004-124

Effective Date: 07/09/2004

Revision: A

LITE-ON DCC

RELEASE

BNS-OD-FC001/A4

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FEATURES

- * 0.3 inch (7.6 mm) DIGIT HEIGHT
- * CONTINUOUS UNIFORM SEGMENTS
- * LOW POWER REQUIREMENT
- * EXCELLENT CHARACTERS APPEARANCE
- * HIGH BRIGHTNESS & HIGH CONTRAST
- * WIDE VIEWING ANGLE
- * SOLID STATE RELIABILITY
- * **LEAD-FREE PACKAGE**

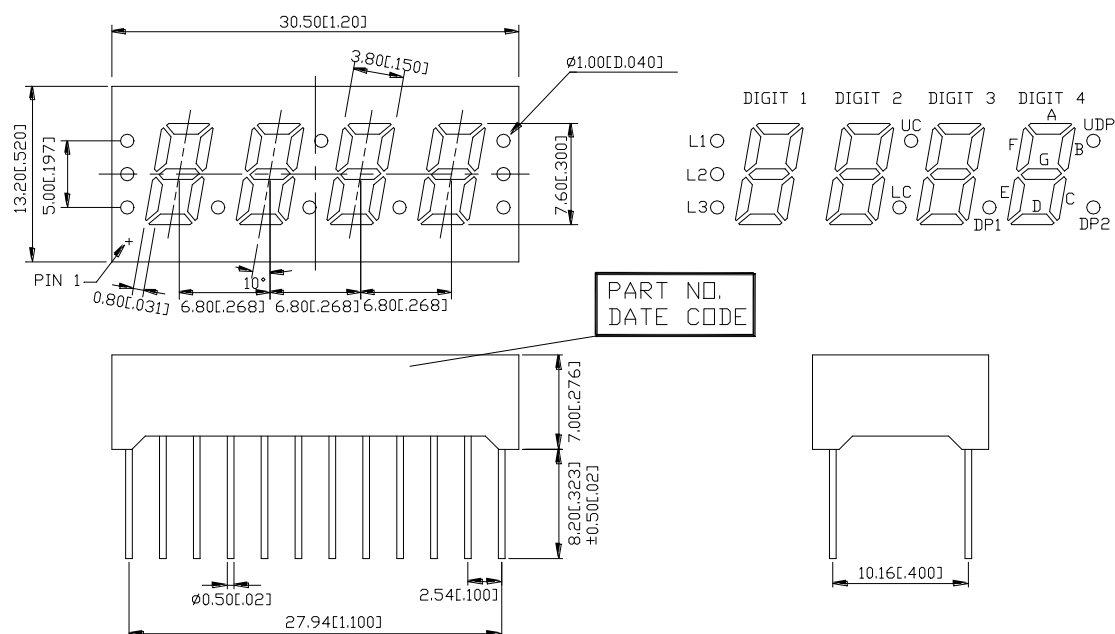
DESCRIPTION

The LTC-3710JE-04 is a 0.3 inch (7.6 mm) height quadruple digit display. The device uses AS-AlInGaP RED LED chips (AlInGaP epi on GaAs substrate). The display has red face and red segments.

DEVICE

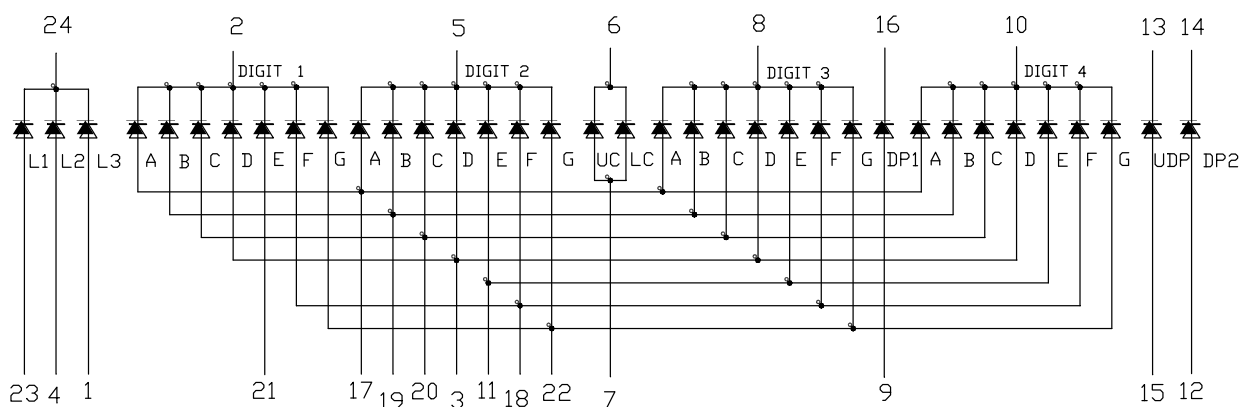
PART NO.	DESCRIPTION
AlInGaP Red	Multiplex Common Cathode Rt. Hand Decimal
LTC-3710JE-04	

PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerances are ± 0.25 -mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



PIN CONNECTION

No	CONNECTION	No	CONNECTION
1	Anode L3	13	Cathode UDP.
2	Common Cathode Digit 1	14	Cathode DP2.
3	Anode D1,D2,D3,D4	15	Anode UDP.
4	Anode L2	16	Cathode DP1
5	Common Cathode Digit 2	17	Anode A1,A2,A3,A4
6	Cathode UC,LC	18	Anode F1,F2,F3,F4
7	Anode UC ,LC	19	Anode B1,B2,B3,B4
8	Common Cathode Digit 3	20	Anode C1,C2,C3,C4
9	Anode DP1	21	Anode E1
10	Common Cathode Digit 4	22	Anode G1,G2,G3,G4
11	Anode E2,E3,E4	23	Anode L1
12	Anode DP2	24	Cathode L1,L2,L3

ABSOLUTE MAXIMUM RATING

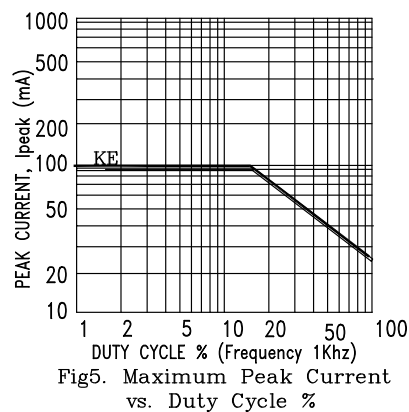
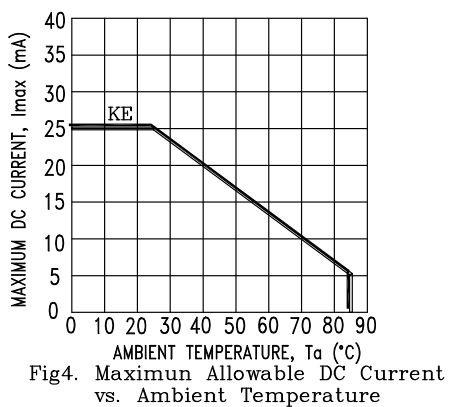
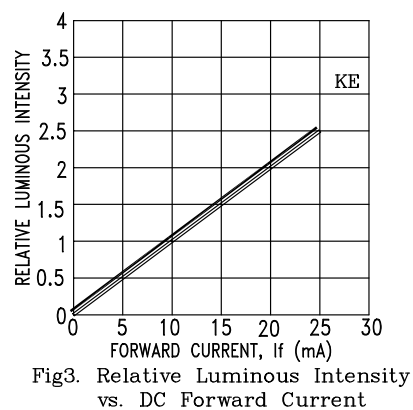
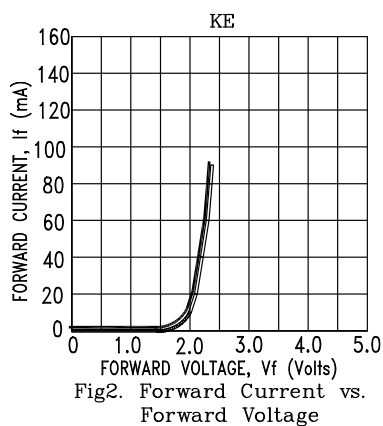
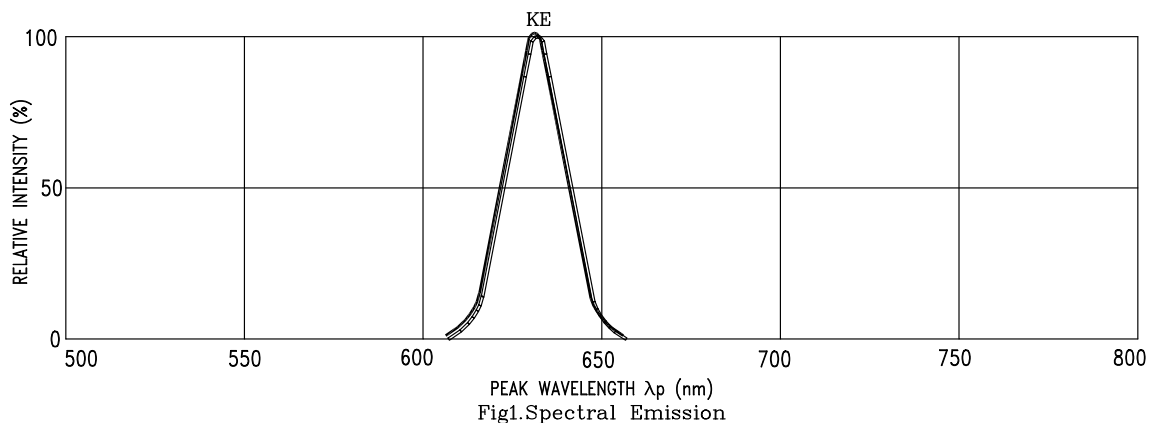
PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 10% duty cycle)	90	mA
Continuous Forward Current Per Segment	25	mA
Derating Linear From 25 ⁰ C Per Segment	0.33	mA/ ⁰ C
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +85 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +85 ⁰ C	
oldering Conditions : 1/16 inch below seating plane for 3 seconds at 260 ⁰ C		

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25⁰C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	500	1200		μcd	I _F =1mA
Peak Emission Wavelength	λ _p		632		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		624		nm	I _F =20mA
Forward Voltage Per Segment	V _F		2.05	2.6	V	I _F =20mA
Reverse Current Per Segment	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -m			2:1		I _F =1mA

Note: Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES (25°C Ambient Temperature Unless Otherwise Note)



NOTE : KE=AlInGaP RED